Figure 1

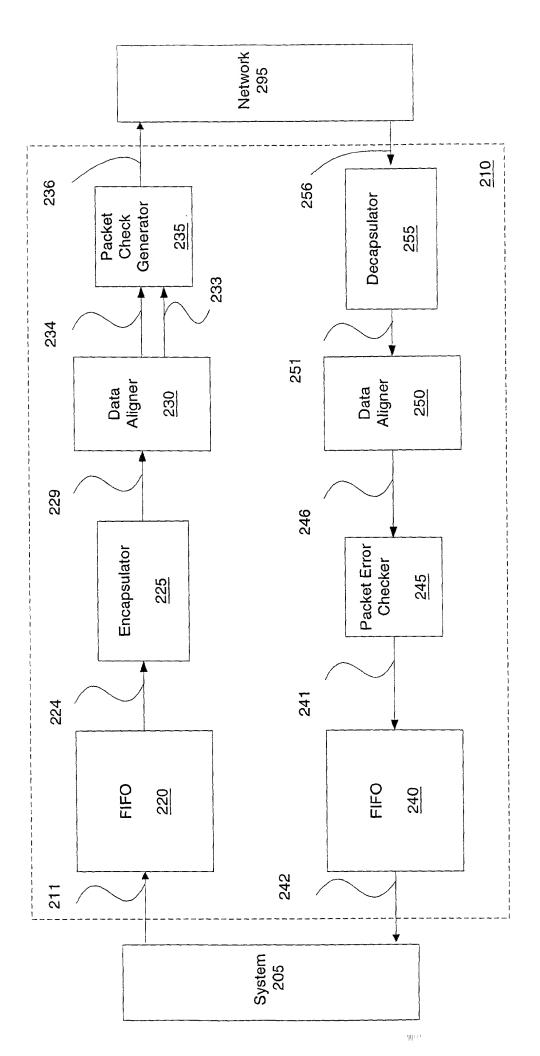


Figure 2

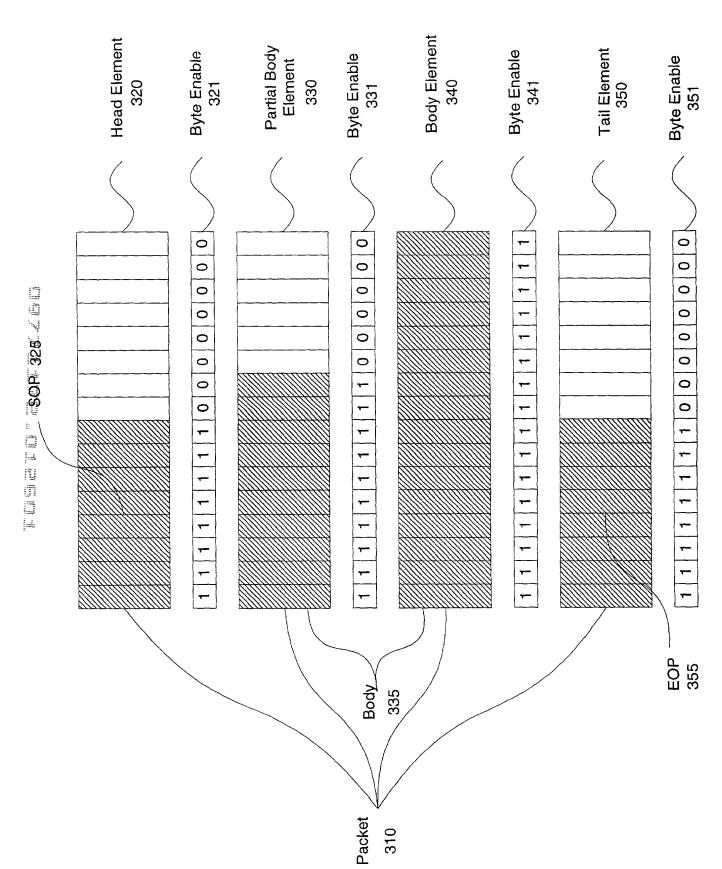
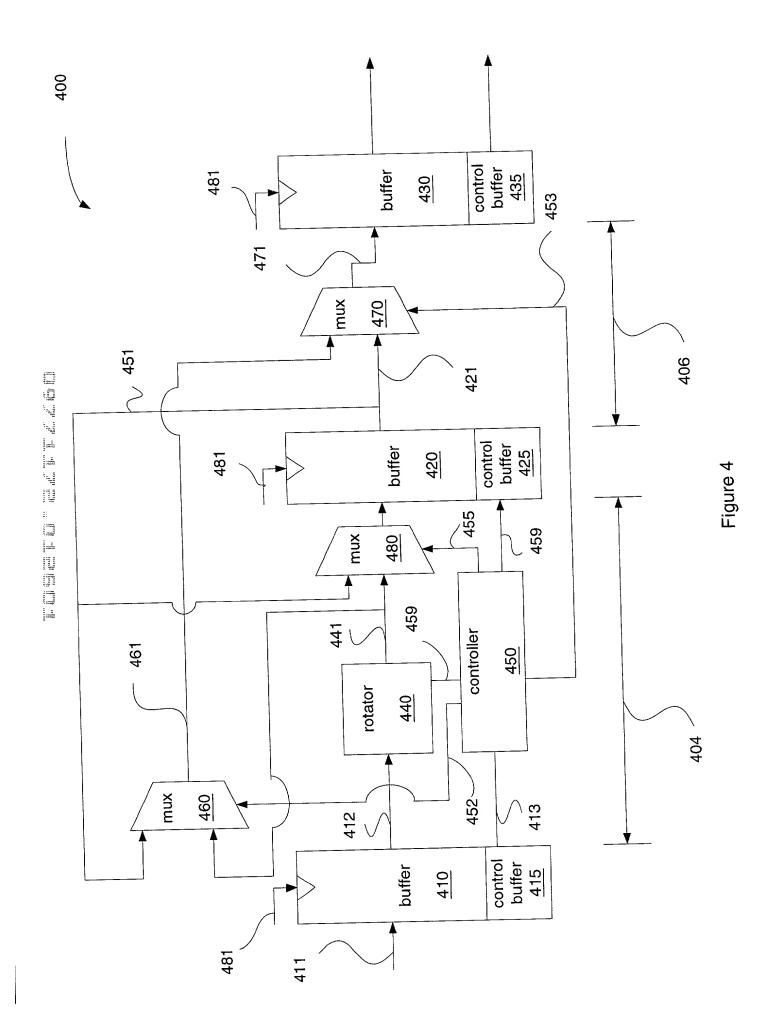
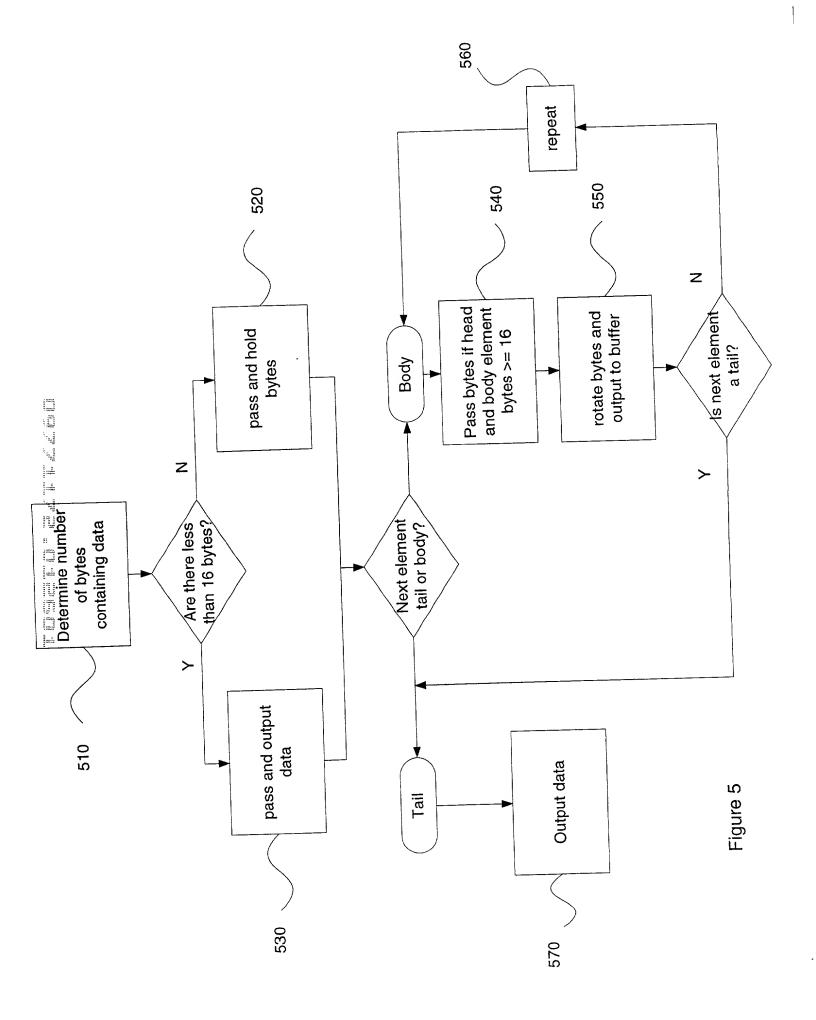


Figure 3





					¥	6.
Mapping Flow	Same sequence as in simple data stream	Same sequence as in simple data stream	Same sequence as in simple data stream	Hold state	Follow tail sequence but: Suppress data aligner control output. Bypass intermediate buffer. Perform calculation using unpassed result.	Follow tail sequence but: Do not suppress byte enables, SOP. Suppress generation of EOP control signal. No bypass for computation.
Qualifier					Net Count <16	Net Count >=16
Mapped Data stream Element	Head	Body	Tail	Hold	Tail	Tail
Complex Data stream Element	Head	Body	Tail	Hole	Partial Body (Tail A)	Partial Body (Tail B)
	610	620	630	640	650	099

Figure 6

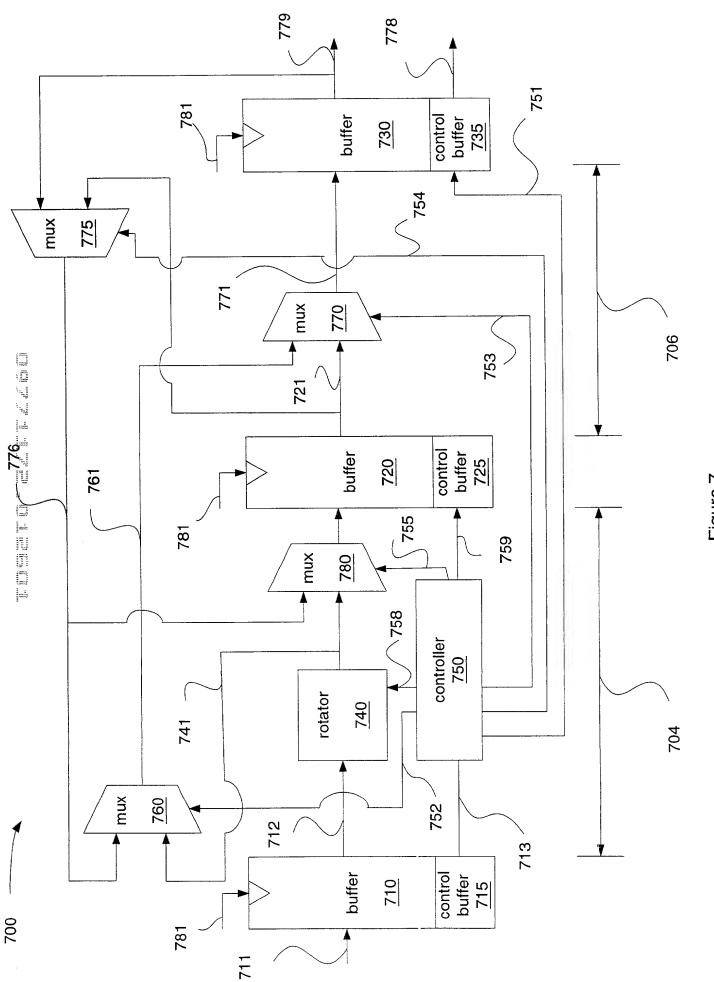


Figure 7

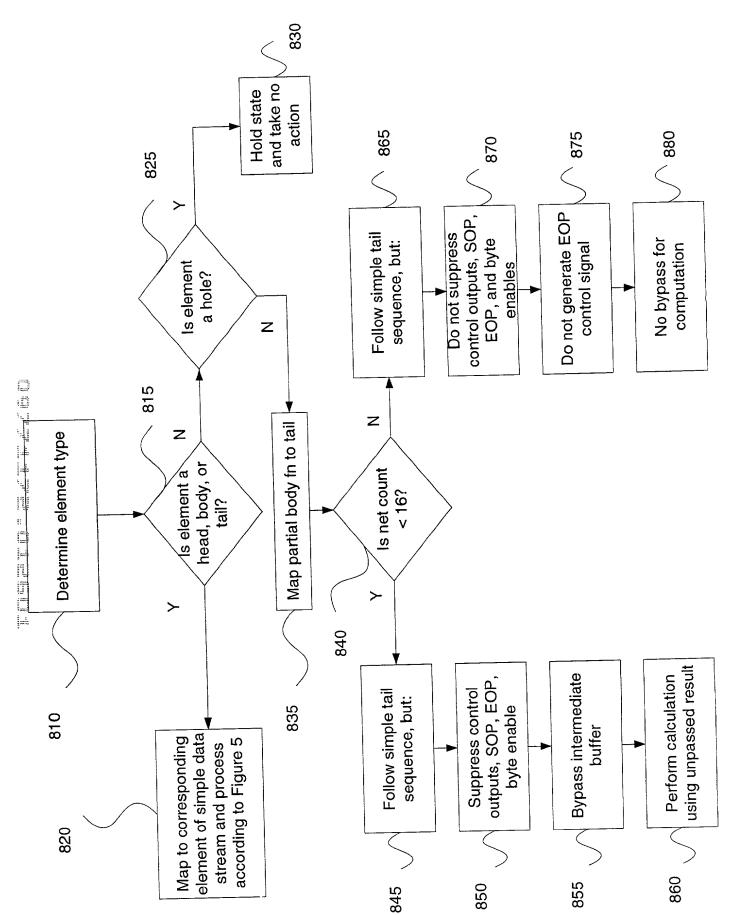


Figure 8

900

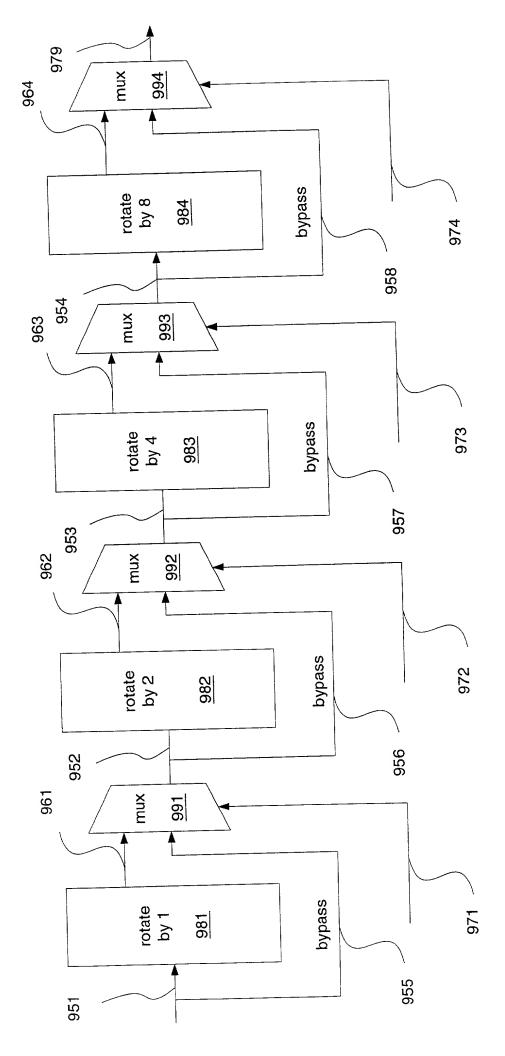


Figure 9

Serial Number	Shift Amount Value	Value of the Mux Control signal mxcntl[15:0]
1	4'b0000	16'b0000000000000000
2	4'b0001	16'b1000000000000000
3	4'b0010	16'b1100000000000000
1	4'b0011	16'b1110000000000000
5	4'b0100	16'b1111000000000000
6	4'b0101	16'b1111100000000000
	4'b0110	16'b1111110000000000
8	4'b0111	16'b1111111000000000
9	4'b1000	16'b1111111100000000
10	4'b1001	16'b111111110000000
11	4'b1010	16'b111111111000000
12	4'b1011	16'b111111111100000
13	4'b1100	16'b111111111110000
14	4'b1101	16'b111111111111000
15	4'b1110	16'b11111111111100
16	4'b1111	16'b111111111111110

FIGURE 10

Rotate_Amount	Input	Output
0	{ABCDEFGHIJKLMNOP}	{ABCDEFGHUKLMNOP}
1	{ABCDEFGHIKLMNOP}	{PABCDEFGHUKLMNO}
2	{ABCDEFGHIJKLMNOP}	{OPABCDEFGHUKLMN}
3	{ABCDEFGHUKLMNOP}	{NOPABCDEFGHUKLM}
4	{ABCDEFGHUKLMNOP}	{MNOPABCDEFGHIJKL}
5	{ABCDEFGHIJKLMNOP}	{LMNOPABCDEFGHIJK}
6	{ABCDEFGHIJKLMNOP}	{KLMNOPABCDEFGHU}
7	{ABCDEFGHUKLMNOP}	{JKLMNOPABCDEFGHI}
8	{ABCDEFGHUKLMNOP}	{UKLMNOPABCDEFGH}
9	{ABCDEFGHUKLMNOP}	{HUKLMNOPABCDEFG}
10	{ABCDEFGHUKLMNOP}	{GHIJKLMNOPABCDEF}
11	{ABCDEFGHUKLMNOP}	{FGHUKLMNOPABCDE}
12	{ABCDEFGHUKLMNOP}	{EFGHUKLMNOPABCD }
13	{ABCDEFGHUKLMNOP}	{DEFGHUKLMNOPABC}
14	{ABCDEFGHUKLMNOP}	{CDEFGHIKLMNOPAB}
15	{ABCDEFGHUKLMNOP}	{BCDEFGHUKLMNOPA}

FIGURE 11